Vienna Instruments Solo Download Instruments Trombone ensemble Full Library

Contents

Introduction	. 3
'Full' Library	3
Data paths and Patch name conventions	3
Patch information	3
Interval performances	4
Matrix information	4
Preset information	5
Abbreviations	5
Articulations	6
The orchestra	7
Pitch	
66 Trombones - a3	
The instrument	
Patches	
01 SHORT + LONG NOTES	
02 DYNAMICS	
03 FLATTER	
10 PERF INTERVAL	
11 PERF INTERVAL FAST	
12 PERF TRILL	
13 PERF REPETITION	13
14 PERF UPBEAT REPETITION	
15 FAST REPETITION	
16 UPBEAT REPETITION	
17 ARPEGGIOS	
98 RESOURCES	
01 Perf Rep dyn	
02 Long Notes - Single Layer	
03 Perf Speed variation	
99 RELEASE	
Matrices	
Matrix - LEVEL 1	
Matrix - LEVEL 2 A - Advanced	
Matrix - LEVEL 2 B - Standard	
Matrix - LEVEL 2 D - Scale+Phrase	
Matrix - LEVEL 2 E - Keyswitch Vel	
Presets	
Appendix	
Arpeggios - major	
Arpeggios - minor	. 30
Arpeggio ranges	. 31

Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Trombone ensemble. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109-127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c-e and then c#-e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

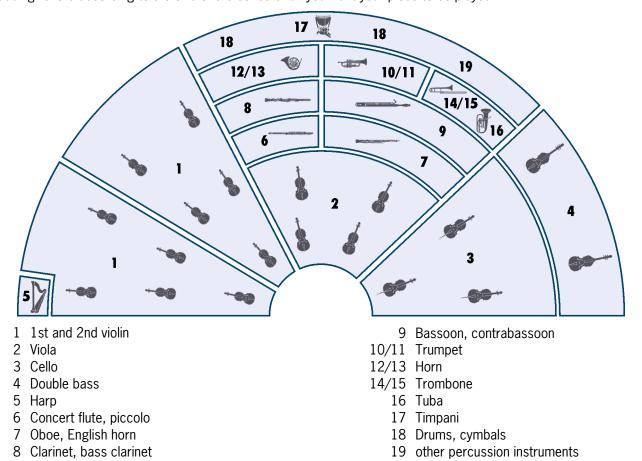
Abbreviation	Meaning	Abbreviation	Meaning
+	faster articulation (runs and	lo	long
	arpeggios)	ma	major
150, 160,	150, 160, BPM (beats per minute)	marc	marcato
1s, 2s,	tone length 1 sec., 2 sec.,	me	medium
acc	accelerando	mi	minor
all	combination of all Patches of a	mord	mordent
	category	mu	muted
arp	arpeggio	muA, muB	muted, variation A/B
blare	"blared" tones (horn)	nA	normal attack
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dm	diminished (arpeggios)	por	portato
dyn	dynamics (crescendo and	run	octave run
	diminuendo)	sA	soft attack
dyn5, dyn9	dynamics, 5/9 repetitions	sl	slow
fa	fast	sta, stac	staccato
faT	fast triplets	sto	stopped (horns)
fA	fast attack	str	strong
fA_auto	attack automation (normal/fast	sus	sustained
	attack)	T	triplets
fast-rep	fast repetitions	tune	"tuning in" articulation
flatter	flutter tonguing	UB 1 0	upbeat
fx	effect sound	UB-a1, -a2	1, 2 upbeats
gliss	glissando	v1, v2	1st, 2nd, variation
hA	hard attack	Vib	with (medium) vibrato
leg	legato	Vib-progr	progressive vibrato
li	light	XF	cell crossfade Matrix

Articulations

66 Trombonos o2	
66 Trombones - a3	
01 SHORT + LONG NOTES	Staccato short and medium
	Portato short, medium and long
	Sustained, normal and marcato
02 DYNAMICS	Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec.
	Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
	pfp, 4, 6, 8 and 10 sec.
	Fortepiano, sforzato, sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo
04 CLUSTER	Staccato and sustained
	Dynamics, 1.5 and 4 sec., sforzato
	Repetition performances, legato, normal and dynamics
10 PERF INTERVAL	Legato, normal and with sustain crossfading
	Marcato
11 PERF INTERVAL FAST	Legato
	Marcato
12 PERF TRILL	Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato, portato, staccato
	Slow and fast
	Dynamics for all repetitions
14 PERF UPBEAT REPETITION	1 and 2 upbeats, slow, medium, and fast
	Normal and dynamics
15 FAST REPETITION	Staccato, 9 repetitions, 140 to 180 BPM
	Normal and dynamics
16 UPBEAT REPETITION	1 upbeat, 80-140 BPM
	2–3 upbeats, 80–140, 160, and 180 BPM
17 ARPEGGIOS	Arpeggios, staccato
	Diminished, major and minor from C to B key
	Up and down, 2 speeds for all
18 GLISSANDI	Performance glissandos, minor 2nd to diminished 5th
	Fixed glissandos, minor 2nd to diminished 5th, up and down
-	7 1

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

66 Trombones - a3

The instrument

Description

The tenor trombone in Bb is, like the trumpet, played with a cup-shaped mouthpiece. The trombone is the oldest brass wind instrument with a chromatic scale – thanks to its slide, which distinguishes it from all other brass instruments.

The trombone section in the modern orchestra uses four trombones, usually two tenor and two tenor-bass trombones.

Range and notation

The tenor trombone has a range from E2-F5.

Notation in the tenor (higher register) and bass clefs (lower register), no transposition.

Sound characteristics

Brassy, brilliant, powerful, overpowering, solid, tense, penetrating, dramatic, hard, full, sinister, soft, round.

The low notes sound threatening when played *forte*, mysterious and full when played *piano*. They are used for weighty and portentous themes and as bass in harmony sequences.

The middle register sounds metallic, mighty, sometimes blaring and heroic when played forte.

In the upper register the sound becomes more brilliant and can reach sweeping intensity. The mellowness increases.

Combination with other instruments

Good tonal blend with the other brass instruments.

The combination of deep woodwinds with the trombone principally serves the reinforcement of sound.

The combination with strings does not generally produce homogeneity. The trombone supports and fleshes out the deep strings.

Patches

01 SHORT + LONG NOTES	Range: C2-A#4		•
01 TB-3_staccato_short	-	Samples: 224	RAM: 14 MB
Staccato, short 4 velocity layers 4 Alternations		cumpico. 22 i	
02 TB-3_staccato_medium		Samples: 224	RAM: 14 MB
Staccato, medium 4 velocity layers 4 Alternations			
03 TB-3_portato_short		Samples: 224	RAM: 14 MB
Portato, short 4 velocity layers 4 Alternations			
04 TB-3_portato_medium		Samples: 224	RAM: 14 MB
Portato, medium 4 velocity layers 4 Alternations			
05 TB-3_portato_long		Samples: 224	RAM: 14 MB
Portato, long 4 velocity layers Release samples 2 Alternations			
11 TB-3 sus		Samples: 224	RAM: 14 MB
Sustained 4 velocity layers Release samples			
12 TB-3_sus_marcato		Samples: 112	RAM: 7 MB
Sustained, marcato			
2 velocity layers Release samples			

02 DYNAMICS Range: C2-A#4 01 TB-3_dyn-me_1'5s Samples: 112 RAM: 7 MB Medium crescendo and diminuendo, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo 02 TB-3_dyn-me_2s Samples: 112 RAM: 7 MB Medium crescendo and diminuendo, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo 03 TB-3_dyn-me_3s Samples: 112 RAM: 7 MB Medium crescendo and diminuendo, 3 sec. 2 velocity layers AB switch: crescendo/diminuendo 04 TB-3 dyn-me 4s Samples: 112 RAM: 7 MB Medium crescendo and diminuendo, 4 sec. 2 velocity layers AB switch: crescendo/diminuendo 05 TB-3_dyn-me_6s Samples: 112 RAM: 7 MB Medium crescendo and diminuendo, 6 sec. 2 velocity layers AB switch: crescendo/diminuendo 11 TB-3 dyn-str 2s Samples: 56 RAM: 3 MB Strong crescendo and diminuendo, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo 12 TB-3_dyn-str_3s Samples: 56 RAM: 3 MB Strong crescendo and diminuendo, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo 13 TB-3_dyn-str_4s Samples: 56 RAM: 3 MB Strong crescendo and diminuendo, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo 14 TB-3_dyn-str_6s Samples: 56 RAM: 3 MB Strong crescendo and diminuendo, 6 sec. 1 velocity layer AB switch: crescendo/diminuendo 21 TB-3_pfp_4s Samples: 14 RAM: 1 MB Crescendo-diminuendo, 4 sec.

1 velocity layer

66 Trombo	ones - a3 / Patches
Samples: 14	RAM: 1 MB
Samples: 14	RAM: 1 MB
Samples: 14	RAM: 1 MB
Samples: 28	RAM: 1 MB
Samples: 28	RAM: 1 MB
Samples: 28	RAM: 1 MB
-	
	Samples: 14 Samples: 14 Samples: 28 Samples: 28

O3 FLATTER Range: C2-A#4 O1 TB-3_flatter Flutter tonguing 1 velocity layer Release samples O2 TB-3_flatter_cre Samples: 28 RAM: 1 MB

Flutter tonguing, crescendo

1 velocity layer

04 CLUSTER Range: C2-A#4 01 TB-3_clu_staccato Samples: 56 RAM: 3 MB Clusters, staccato 2 velocity layers 2 Alternations 02 TB-3_clu_sus Samples: 28 RAM: 1 MB Clusters, sustained 1 velocity layer Release samples 03 TB-3_clu_dyn_1'5s Samples: 28 RAM: 1 MB Clusters, crescendo and diminuendo, 1.5 sec. 1 velocity layer AB switch: crescendo/diminuendo 04 TB-3_clu_dyn_4s Samples: 28 RAM: 1 MB Clusters, crescendo and diminuendo, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo 05 TB-3_clu_sfz Samples: 14 RAM: 1 MB Clusters, sforzato 1 velocity layer 06 TB-3_clu_perf-rep_leg Samples: 140 RAM: 8 MB Clusters, legato 2 velocity layers 07 TB-3_clu_perf-rep_dyn5_leg Samples: 140 RAM: 8 MB Clusters, legato dynamics, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo

10 PERF INTERVAL Range: C2-A#4

01 TB-3_perf-legato Samples: 616 RAM: 38 MB

Legato

2 velocity layers

Release samples

02 TB-3_perf-legato_sus Samples: 728 RAM: 45 MB

Legato

Sustain crossfading

4 velocity layers

Release samples

03 TB-3_perf-marcato

Marcato 2 velocity layers Release samples

Range: C2-G#4

Samples: 669

RAM: 41 MB

11 PERF INTERVAL FAST



01 TB-3_perf-legato_fa

Legato, fast 2 velocity layers Release samples

02 TB-3_perf-marcato_fa

Marcato, fast 2 velocity layers Release samples

Range: C2-G#4

Range: C2-A#4

Range: C2-A#4

Samples: 777

Samples: 1232

Samples: 722

RAM: 48 MB

RAM: 77 MB

RAM: 45 MB

12 PERF TRILL

Range: C2-A#4

01 TB-3_perf-trill

Performance trills, legato, minor to major 2nd 2 velocity layers Release samples

13 PERF REPETITION



RAM: 9 MB

RAM: 9 MB

01 TB-3_perf-rep_leg-sl

Legato, slow 2 velocity layers

02 TB-3_perf-rep_leg-fa

Legato, fast 2 velocity layers

03 TB-3_perf-rep_por-sl

Portato, slow 2 velocity layers

04 TB-3_perf-rep_por-fa

Portato, fast 2 velocity layers

elocity layers

Samples: 270

Samples: 270

Samples: 150

Samples: 150

RAM: 16 MB

RAM: 16 MB

	66 Trombo	nes - a3 / Patches
05 TB-3_perf-rep_sta-sl	Samples: 270	RAM: 16 MB
Staccato, slow		
2 velocity layers		
06 TB-3_perf-rep_sta-fa	Samples: 270	RAM: 16 MB
Staccato, fast		
2 velocity layers		
21 TB-3_perf-rep_dyn5_leg-sl	Samples: 150	RAM: 9 MB
Legato dynamics, slow, 5 repetitions	·	
1 velocity layer		
AB switch: crescendo/diminuendo		
22 TB-3_perf-rep_dyn5_leg-fa	Samples: 150	RAM: 9 MB
Legato dynamics, fast, 5 repetitions		
1 velocity layer		
AB switch: crescendo/diminuendo		
23 TB-3_perf-rep_dyn9_por-sl	Samples: 270	RAM: 16 MB
Portato dynamics, slow, 9 repetitions		
1 velocity layer		
AB switch: crescendo/diminuendo		
24 TB-3_perf-rep_dyn9_por-fa	Samples: 270	RAM: 16 MB
Portato dynamics, fast, 9 repetitions		
1 velocity layer		
AB switch: crescendo/diminuendo		
25 TB-3_perf-rep_dyn9_sta-sl	Samples: 270	RAM: 16 MB
Staccato dynamics, slow, 9 repetitions	-	
1 velocity layer		
AB switch: crescendo/diminuendo		
26 TB-3_perf-rep_dyn9_sta-fa	Samples: 270	RAM: 16 MB
Staccato dynamics, fast, 9 repetitions		
4 1 1 1		

1 velocity layer

AB switch: crescendo/diminuendo

14 PERF UPBEAT REPETITION	Range: C2-A#4		
01 TB-3_perf-rep_UB-a1_sl		Samples: 120	RAM: 7 MB
1 upbeat, slow 2 velocity layers			
02 TB-3_perf-rep_UB-a2_sl		Samples: 120	RAM: 7 MB
2 upbeats, slow 2 velocity layers			

03 TB-3_perf-rep_UB-a1_me	Samples: 120	RAM: 7 MB
1 upbeat, medium		
2 velocity layers		
04 TB-3_perf-rep_UB-a2_me	Samples: 120	RAM: 7 MB
2 upbeats, medium		
2 velocity layers		
D5 TB-3_perf-rep_UB-a1_fa	Samples: 120	RAM: 7 MB
l upbeat, fast		
2 velocity layers		
06 TB-3_perf-rep_UB-a2_fa	Samples: 120	RAM: 7 MB
2 upbeats, fast		
2 velocity layers		
l 1 TB-3_perf-rep_dyn4_UB-a1_sl	Samples: 120	RAM: 7 MB
1 upbeat, slow, dynamics		
4 repetitions		
1 velocity layer		
AB switch crescendo/diminuendo		
L2 TB-3_perf-rep_dyn4_UB-a2_sl	Samples: 120	RAM: 7 MB
2 upbeats, slow, dynamics		
4 repetitions		
1 velocity layer AB switch crescendo/diminuendo		
ab switch crestendo/diminaendo		
l3 TB-3_perf-rep_dyn4_UB-a1_me	Samples: 120	RAM: 7 MB
l upbeat, medium, dynamics		
4 repetitions		
1 velocity layer AB switch crescendo/diminuendo		
ab switch crescendo/diminuendo		
L4 TB-3_perf-rep_dyn4_UB-a2_me	Samples: 120	RAM: 7 MB
2 upbeats, medium, dynamics		
4 repetitions I velocity layer		
AB switch crescendo/diminuendo		
L5 TB-3_perf-rep_dyn4_UB-a1_fa	Samples: 120	RAM: 7 MB
l upbeat, fast, dynamics		
4 repetitions		
1 velocity layer AB switch crescendo/diminuendo		
SWITCH CLESCENDO/ MITHINGINDO		
16 TB-3_perf-rep_dyn4_UB-a2_fa	Samples: 120	RAM: 7 MB
2 upbeats, fast, dynamics		
repetitions		
I velocity layer AB switch crescendo/diminuendo		
AD SWITCH CLESCENDO/ UNHINDENDO		

Samples: 112

Samples: 56

Samples: 84

Samples: 84

Samples: 84

15 FAST REPETITION Range: D2-A4



RAM: 7 MB

RAM: 3 MB

01 TB-3_fast-rep_140 (150/160/170/180)

Fast repetitions: 140-180 BPM

2 velocity layers Release samples

11 TB-3_fast-rep_140_dyn (150/160/170/180)

Fast repetitions

Dynamics, 140–180 BPM

1 velocity layer

AB switch: crescendo/diminuendo

16 UPBEAT REPETITION

A Single Upbeat Range: D2-A4

• •

RAM: 5 MB

RAM: 5 MB

RAM: 5 MB

01 TB-3_UB-a1_80 (90/100/110/120/130/140)

1 upbeat, 80-140 BPM

3 velocity layers

B Double Upbeats Range: D2-A4



01 TB-3_UB-a2_80 (90/100/110/120/130/140/160/180)

2 upbeats, 80-140, 160, and 180 BPM

3 velocity layers

C Triple Upbeats Range: D2-A4



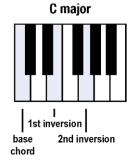
01 TB-3_UB-a3_80 (90/100/110/120/130/140/160/180)

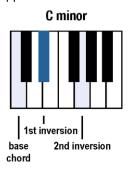
3 upbeats, 80-140, 160, and 180 BPM

3 velocity layers

17 ARPEGGIOS

Please note that the playing ranges vary with the key of the Patch used. For playing ranges and mappings for each key, please see the appendix.





Staccato diminished



RAM: 3 MB

01 TB-3_arp-sta_dm

Arpeggios, staccato Diminished 2 velocity layers AB switch: up/down



Staccato diminished fast

01 TB-3_arp-sta+_dm

Arpeggios, staccato, fast Diminished 2 velocity layers AB switch: up/down Range: D2-A4

Range: D2-A4

Samples: 52 RAM: 3 MB

Samples: 52

Samples: 20

Samples: 20

Staccato major



RAM: 1 MB

RAM: 1 MB

01 TB-3_arp-sta_C-ma (through to B-ma)

Arpeggios, staccato C to B major 2 velocity layers AB switch: up/down

Staccato major fast



01 TB-3_arp-sta+_C-ma (through to B-ma)

Arpeggios, staccato, fast C to B major 2 velocity layers AB switch: up/down

Samples: 20

Samples: 20

Staccato minor



RAM: 1 MB

01 TB-3_arp-sta_C-mi (through to B-mi)

Arpeggios, staccato C to B minor 2 velocity layers AB switch: up/down

Staccato minor fast



RAM: 1 MB

01 TB-3_arp-sta_C-mi+ (through to B-mi)

Arpeggios, staccato, fast C to B minor 2 velocity layers AB switch: up/down

18 GLISSANDI



Please note that fixed glissandos have different up and down ranges.

Thouse note that fixed glissariass have afficient up and down range

01 TB-3_perf-gliss

Glissando, minor 2nd to diminished 5th

Range: C2-A#4

RAM: 48 MB

2 velocity layers

Release samples

11 TB-3_gliss-1

Glissando, minor 2nd 2 velocity layers AB switch: up/down

12 TB-3_gliss-2

Glissando, major 2nd 2 velocity layers AB switch: up/down

13 TB-3_gliss-3

Glissando, minor 3rd 2 velocity layers AB switch: up/down

14 TB-3_gliss-4

Glissando, major 3rd 2 velocity layers AB switch: up/down Samples: 108

Samples: 782

RAM: 6 MB

Samples: 104

RAM: 6 MB

Samples: 92

Samples: 80

RAM: 5 MB

.....

RAM: 5 MB

RAM: 3 MB

15 TB-3 gliss-5

Glissando, 4th 2 velocity layers AB switch: up/down

Samples: 18 RAM: 1 MB

Samples: 52

16 TB-3_gliss-6

Glissando, diminished 5th 2 velocity layers AB switch: up/down

98 RESOURCES

Slow legato Interval Performance

Isolated dynamics repetitions: Legato slow and fast, portato, staccato

Single layer long notes

Range: C2-A#4 01 Perf Rep dyn 01 TB-3 rep cre5 leg-sl-1 (2/3/4/5) Samples: 15 RAM: 1 MB Extracted repetitions Legato, slow, crescendo, 1st to 5th note 1 velocity layer 01 TB-3_rep_dim5_leg-sl-1 (2/3/4/5) Samples: 15 RAM: 1 MB Extracted repetitions Legato, slow, diminuendo, 1st to 5th note 1 velocity layer 02 TB-3_rep_cre5_leg-fa-1 (2/3/4/5) RAM: 1 MB Samples: 15 Extracted repetitions Legato, fast, crescendo, 1st to 5th note 1 velocity layer 02 TB-3_rep_dim5_leg-fa-1 (2/3/4/5) Samples: 15 RAM: 1 MB **Extracted repetitions** Legato, fast, diminuendo, 1st to 5th note 1 velocity layer 03 TB-3_rep_cre9_por-1 (2/3/4/5/6/7/8/9) Samples: 15 RAM: 1 MB Extracted repetitions: Portato, crescendo, 1st to 9th note 1 velocity layer 03 TB-3_rep_dim9_por-1 (2/3/4/5/6/7/8/9) Samples: 15 RAM: 1 MB Extracted repetitions: Portato, diminuendo, 1st to 9th note 1 velocity layer 04 TB-3 rep cre9 sta-1 (2/3/4/5/6/7/8/9) Samples: 15 RAM: 1 MB

1 velocity layer

Extracted repetitions: Staccato, crescendo, 1st to 9th note

RAM: 1 MB

RAM: 42 MB

Samples: 15

Samples: 672

04 TB-3_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)

Extracted repetitions: Staccato, diminuendo, 1st to 9th note

1 velocity layer

02 Long Notes - Single Layer	Range: C2-A#4		
01 TB-3_sus-p		Samples: 56	RAM: 3 MB
Sustained, piano			
1 velocity layer Release samples			
02 TB-3_sus-mf		Samples: 56	RAM: 3 MB
Sustained, mezzoforte			
1 velocity layer			
Release samples			
03 TB-3_sus-f		Samples: 56	RAM: 3 MB
Sustained, forte			
1 velocity layer			
Release samples			
04 TB-3_sus-ff		Samples: 56	RAM: 3 MB
Sustained, fortissimo			
1 velocity layer			
Release samples			

Range: C2-A#4

03 Perf Speed variation

01 TB-3_perf-legato_slow

Interval performances Legato, slow 2 velocity layers Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

RAM: 56 MB

RAM: 55 MB

RAM: 43 MB

RAM: 106 MB

Samples: 896

Samples: 886

Samples: 690

Samples: 1711

Matrices

Matrix - LEVEL 1

L1 TB-3 Articulation Combi

Single note articulations

Staccato, portato short, sustained, marcato crescendo-diminuendo 4 and 6 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1

۷1

V2

C1

staccato

port. short

C#1	D1	D#1	E1	
sustained	pfp 4s.	fp	flutter	
marcato	pfp 6s.	sfz	flutter cres.	

Vertical: Modwheel, 2 zones

L1 TB-3 Perf-Legato Speed

Interval performances Legato slow, normal, and fast Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

L1 TB-3 Perf-Repetitions Combi

Repetition performances Legato slow Portato slow Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato slow
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 TB-3 Perf-Universal

Interval performances Legato slow, normal, and fast Marcato normal and fast Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

. ,			•
	H1	H2	H3
legato	slow	normal	fast
marcato	normal	normal	fast

Vertical: Modwheel, 2 zones

RAM: 83 MB

RAM: 80 MB

RAM: 55 MB

RAM: 55 MB

RAM: 70 MB

Samples: 1336

Samples: 1288

Samples: 886

Samples: 881

Samples: 1120

02 TB-3 Perf-Trill Speed

Multi interval performances

Legato and trills

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 TB-3 Short+Long notes

Single notes

Staccato short and medium

Portato short, medium, and long Sustained normal and marcato

Matrix switches: Horizontal: Keyswitches, C1–F1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac.short	stac.medium	port. short	port.medium	port.long	sustained
V2	%	%	%	%	%	marcato

Matrix - LEVEL 2 B - Standard

11 TB-3 Perf-Legato Speed

Interval performances Legato slow, normal, and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

12 TB-3 Perf-Marcato Speed

Interval performances^mMarcato normal and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 TB-3 Short notes

Single notes

Staccato short and medium

Portato short, medium, and long

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	stac.short	stac.medium	port.short	port.medium	port.long

RAM: 17 MB

RAM: 26 MB

RAM: 47 MB

Samples: 280

Samples: 420

Samples: 756

Samples: 1110

14 TB-3 Long notes - All

Single notes

Sustained normal and marcato

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	
sustained	normal	marcato

15 TB-3 Dynamics - Small

Dynamics

Medium crescendo and diminuendo, 2, 3, and 4 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1

 rertical.	IVIOUVI	icci, -	4 zones
•			

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 TB-3 Dynamics - Large

Dynamics

Medium and strong crescendo and diminuendo, 2, 3, 4, and 6 sec.

Crescendo-diminuendo, 4, 6, 8, and 10 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1	D#1
dyn.medium	2 sec.	3 sec.	4 sec.	6 sec.
dyn.strong	3 sec.	3 sec.	4 sec.	6 sec.
pfp	4 sec.	6 sec.	8 sec.	10 sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

17 TB-3 Flatter Samples: 84 RAM: 5 MB

Flutter tonguing

Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 TB-3 Perf-Repetitions - Combi

Repetition performances

Slow and fast legato, fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato fast	staccato slow	staccato fast

RAM: 69 MB

RAM: 52 MB

RAM: 21 MB

RAM: 29 MB

RAM: 36 MB

RAM: 47 MB

RAM: 47 MB

RAM: 131 MB

Samples: 840

Samples: 336

Samples: 472

Samples: 588

Samples: 756

Samples: 756

Samples: 2100

32 TB-3 Perf-Repetitions - Speed

Repetition performances

Slow and fast legato, fast portato, and slow staccato

Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato fast	portato fast	staccato slow

33 TB-3 Fast-Repetitions

Fast repetitions: Staccato, 140-180 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

34 TB-3 Perf Upbeat Repetitions

Repetition performances

1 and 2 upbeats, slow and fast

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
1 upbeat	slow	fast
2 upbeats	slow	fast

35 TB-3 Upbeats a1

Repetitions: 1 upbeat, 80-140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	80	90	100	110	120	130	140

36 TB-3 Upbeats a2

Repetitions: 2 upbeats, 80–140, 160, and 180 BPM **Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	80	90	100	110	120	130	140	160	180

37 TB-3 Upbeats a3

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM **Matrix switches:** Horizontal: Keyswitches, C1–G#1

		C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/B	PM	90	100	110	120	130	140	160	180	200

38 TB-3 Upbeats all

Repetitions: 1-3 upbeats, 80-140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	80	90	100	110	120	130	130	130	140
2 upbeats	80	90	100	110	120	130	140	160	180
3 upbeats	80	90	100	110	120	130	140	160	180

RAM: 6 MB

RAM: 6 MB

RAM: 6 MB

RAM: 6 MB

RAM: 16 MB

RAM: 16 MB

Samples: 104

Samples: 104

Samples: 100

Samples: 100

Samples: 256

Samples: 256

Matrix - LEVEL 2 D - Scale+Phrase

51 TB-3 Arpeggios-staccato - Major

Arpeggios, staccato, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

52 TB-3 Arpeggios-staccato - Major+

Arpeggios, staccato fast, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

53 TB-3 Arpeggios-staccato - Minor

Arpeggios, staccato, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

54 TB-3 Arpeggios-staccato - Minor+

Arpeggios, staccato fast, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
fast												

55 TB-3 Arpeggios-staccato - All

Arpeggios, staccato, C to B major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 TB-3 Arpeggios-staccato - All+

Arpeggios, staccato fast, $\ensuremath{\mathsf{C}}$ to $\ensuremath{\mathsf{B}}$ major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

RAM: 4 MB

RAM: 4 MB

RAM: 8 MB

RAM: 8 MB

RAM: 9 MB

RAM: 16 MB

Samples: 75

Samples: 75

Samples: 135

Samples: 135

Samples: 150

Samples: 270

Matrix - LEVEL 2 E - Keyswitch Vel

71 TB-3 Legato slow - cre5

Slow legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TB-3 Legato fast - cre5

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 TB-3 Portato - cre9

Portato notes: Crescendo, keyswitch velocity Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TB-3 Staccato - cre9

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 TB-3 Combi - cre5

Slow and fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 TB-3 Combi - cre9

Portato and staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

RAM: 4 MB

RAM: 4 MB

RAM: 8 MB

RAM: 8 MB

RAM: 9 MB

RAM: 16 MB

Samples: 75

Samples: 75

Samples: 135

Samples: 135

Samples: 150

Samples: 270

77 TB-3 Legato slow - dim5

Slow legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 TB-3 Legato fast - dim5

Fast legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 TB-3 Portato - dim9

Portato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 TB-3 Staccato - dim9

Staccato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 TB-3 Combi - dim5

Slow and fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 TB-3 Combi - dim9

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

RAM: 144 MB

RAM: 280 MB

Samples: 2304

Samples: 4483

Presets

TB-3 VSL Preset Level 1

L1 TB-3 Perf-Legato Speed

L1 TB-3 Articulation Combi

L1 TB-3 Perf-Repetitions Combi

Preset keyswitches: C6-D6

TB-3 VSL Preset Level 2

01 TB-3 Perf-Universal

02 TB-3 Perf-Trill Speed

L1 TB-3 Articulation Combi

31 TB-3 Perf-Repetitions - Combi

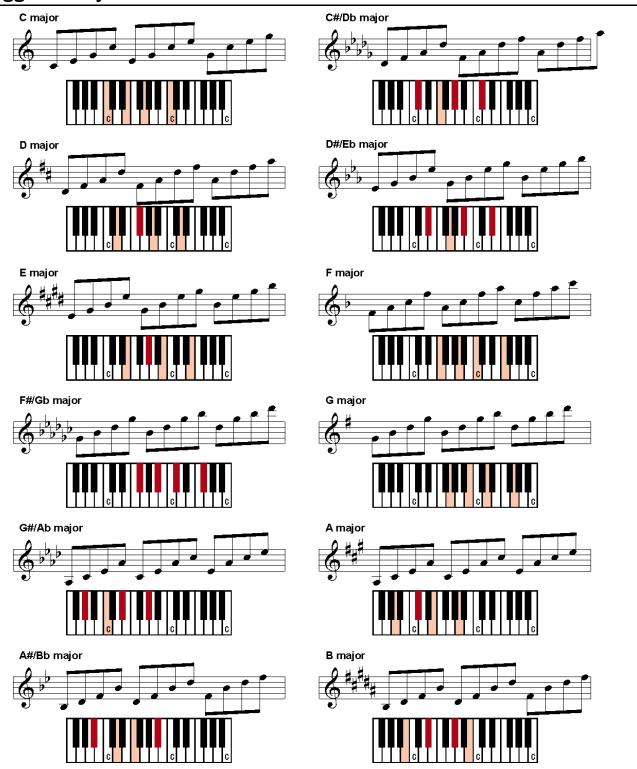
76 TB-3 Combi - cre9

Preset keyswitches: C6-E6

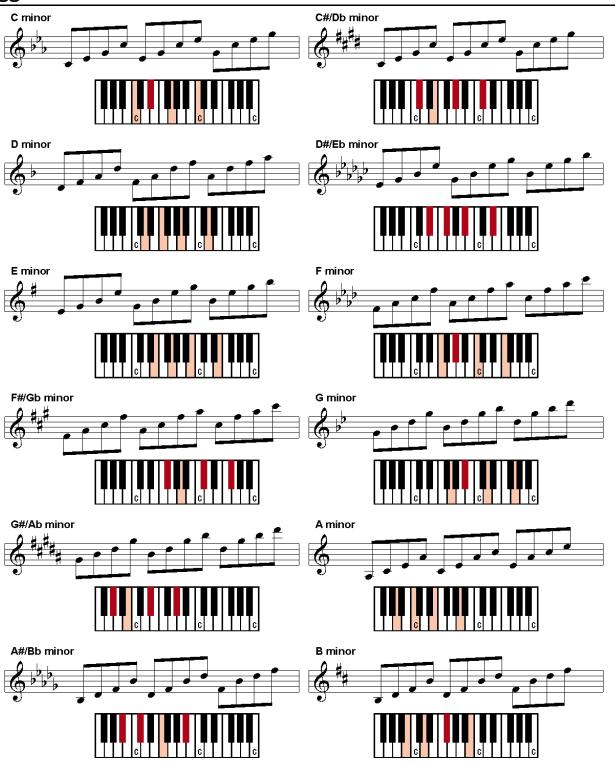
Appendix

In the following, you will find notations and keyboard layout graphics for major and minor arpeggios, as well as a list of playing ranges for the individual arpeggio Patches.

Arpeggios - major



Arpeggios - minor



Arpeggio ranges

Staccato major	play range	Staccato minor	play range
01 TB-3_arp-sta_C-ma	E2-G4	01 TB-3_arp-sta_C-mi	G2-G4
02 TB-3_arp-sta_C#-ma	F2-F4	02 TB-3_arp-sta_C#-mi	G#2-G#4
03 TB-3_arp-sta_D-ma	F#2-F#4	03 TB-3_arp-sta_D-mi	F2-F4
04 TB-3_arp-sta_D#-ma	D#2-G4	04 TB-3_arp-sta_D#-mi	D#2-F#4
05 TB-3_arp-sta_E-ma	E2-G#4	05 TB-3_arp-sta_E-mi	E2-G4
06 TB-3_arp-sta_F-ma	F2-F4	06 TB-3_arp-sta_F-mi	F2-F4
07 TB-3_arp-sta_F#-ma	F#2–F#4	07 TB-3_arp-sta_F#-mi	F#2-F#4
08 TB-3_arp-sta_G-ma	G2-G4	08 TB-3_arp-sta_G-mi	G2-G4
09 TB-3_arp-sta_G#-ma	G#2-G#4	09 TB-3_arp-sta_G#-mi	G#2-G#4
10 TB-3_arp-sta_A-ma	E2-E4	10 TB-3_arp-sta_A-mi	E2-E4
11 TB-3_arp-sta_A#-ma	F2-F4	11 TB-3_arp-sta_A#-mi	F2-F4
12 TB-3_arp-sta_B-ma	D#2-F#4	12 TB-3_arp-sta_B-mi	F#2-F#4
Staccato major fast	play range	Staccato minor fast	play range
Staccato major fast 01 TB-3_arp-sta+_C-ma	play range E2-G4	Staccato minor fast 01 TB-3_arp-sta_C-mi+	play range G2–G4
•			
01 TB-3_arp-sta+_C-ma	E2-G4	01 TB-3_arp-sta_C-mi+	G2–G4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma	E2–G4 F2–F4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+	G2–G4 G#2–G#4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma	E2–G4 F2–F4 F#2–F#4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+	G2–G4 G#2–G#4 F2–F4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_D#-ma	E2–G4 F2–F4 F#2–F#4 D#2–G4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+	G2–G4 G#2–G#4 F2–F4 D#2–F#4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_D#-ma 05 TB-3_arp-sta+_E-ma	E2-G4 F2-F4 F#2-F#4 D#2-G4 E2-G#4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+ 05 TB-3_arp-sta_E-mi+	G2–G4 G#2–G#4 F2–F4 D#2–F#4 E2–G4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_D#-ma 05 TB-3_arp-sta+_E-ma 06 TB-3_arp-sta+_F-ma	E2-G4 F2-F4 F#2-F#4 D#2-G4 E2-G#4 F2-F4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+ 05 TB-3_arp-sta_E-mi+ 06 TB-3_arp-sta_F-mi+	G2–G4 G#2–G#4 F2–F4 D#2–F#4 E2–G4 F2–F4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_D#-ma 05 TB-3_arp-sta+_E-ma 06 TB-3_arp-sta+_F-ma 07 TB-3_arp-sta+_F#-ma	E2-G4 F2-F4 F#2-F#4 D#2-G4 E2-G#4 F2-F4 F#2-F#4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+ 05 TB-3_arp-sta_E-mi+ 06 TB-3_arp-sta_F-mi+ 07 TB-3_arp-sta_F#-mi+	G2–G4 G#2–G#4 F2–F4 D#2–F#4 E2–G4 F2–F4 F#2–F#4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_D#-ma 05 TB-3_arp-sta+_E-ma 06 TB-3_arp-sta+_F-ma 07 TB-3_arp-sta+_F#-ma 08 TB-3_arp-sta+_G-ma	E2-G4 F2-F4 F#2-F#4 D#2-G4 E2-G#4 F2-F4 F#2-F#4 G2-G4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+ 05 TB-3_arp-sta_E-mi+ 06 TB-3_arp-sta_F-mi+ 07 TB-3_arp-sta_F#-mi+ 08 TB-3_arp-sta_G-mi+	G2-G4 G#2-G#4 F2-F4 D#2-F#4 E2-G4 F2-F4 F#2-F#4 G2-G4
01 TB-3_arp-sta+_C-ma 02 TB-3_arp-sta+_C#-ma 03 TB-3_arp-sta+_D-ma 04 TB-3_arp-sta+_B-ma 05 TB-3_arp-sta+_E-ma 06 TB-3_arp-sta+_F-ma 07 TB-3_arp-sta+_F#-ma 08 TB-3_arp-sta+_G-ma 09 TB-3_arp-sta+_G#-ma	E2-G4 F2-F4 F#2-F#4 D#2-G4 E2-G#4 F2-F4 F#2-F#4 G2-G4 G#2-G#4	01 TB-3_arp-sta_C-mi+ 02 TB-3_arp-sta_C#-mi+ 03 TB-3_arp-sta_D-mi+ 04 TB-3_arp-sta_D#-mi+ 05 TB-3_arp-sta_E-mi+ 06 TB-3_arp-sta_F-mi+ 07 TB-3_arp-sta_F#-mi+ 08 TB-3_arp-sta_G-mi+ 09 TB-3_arp-sta_G#-mi+	G2-G4 G#2-G#4 F2-F4 D#2-F#4 E2-G4 F2-F4 F#2-F#4 G2-G4 G#2-G#4